

Commonwealth of Kentucky
Division for Air Quality

PERMIT APPLICATION SUMMARY FORM

Completed by: Julian D. Breckenridge

GENERAL INFORMATION:

Name:	Somerset Recycling Services, Inc.
Address:	1 Recycle Way Somerset, KY 42503
Date application received:	3/12/2007
SIC Code/SIC description:	5093, Scrap and Waste Materials (merchant wholesalers)
Source ID:	21-199-00098
Source A.I. #:	54848
Activity ID:	APE20070001
Permit:	F-07-028

APPLICATION TYPE/PERMIT ACTIVITY:

<input checked="" type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input checked="" type="checkbox"/> Operating
<input type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input checked="" type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input checked="" type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☒ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM ₁₀	8.24	116

SOURCE DESCRIPTION:

Somerset Recycling Services, Inc. located in Somerset, KY recycles clean, surplus, and quality rejected products. Their process uses various sizes of grinders to reduce the incoming products to a flake-type material, which is sold to post-secondary plastic manufactures. The first three machines grind hard plastic into chips. Each has its own cyclone (80% efficiency). Grinder #1 has its own in-line baghouse (99.9% efficiency) downstream of the cyclone while units #2 and #3 are connected to a second baghouse downstream (99.9% efficiency) of their respective cyclones. Both baghouse units vent into the building. The combined control efficiency for each unit (1-3) is 99.98%. Machine #4 is a pre-grinder that merely breaks the original-sized hard plastic parts in a manageable size for Units 1-3. Machine #4 (pre-grinder) does not have a control device attached. Grinders #5-10 are used to grind plastic bags into a flake product. All six units (5-10) are identical. Each plastic bag grinder uses water to control dust (75% efficiency) and to aid in the grinding process. In addition to the water suppression, each unit has a cyclone of 80% efficiency. The exhaust from the each cyclone is ducted into its own dedicated final bag collector (50% efficiency) located outside for ease in particulate disposal. The combined control efficiency for each unit (5-10) is 97.5%.

On March 12, 2007 the Division of Air Quality received an application from Somerset Recycling Services, Inc. for an initial conditional major permit under 401 KAR 52:030. The application was completed on April 4, 2007 with the result that the source has maximum allowable emissions of 116 tons per year of particulate matter (PM/PM₁₀), based on emission limits from 401 KAR 59:010.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

Somerset Recycling Services, Inc. has applied to operate under federally enforceable permit limits of less than 90 tons per year of PM/PM₁₀.

OPERATIONAL FLEXIBILITY:

The source is not restricted as to hours of operation or quantity of product produced while remaining within the caps above.